

Measurement
Lesson 9: Surface Area
Math for Standards

Name _____

Date _____

Key Concepts:

The surface area of a figure is the _____ of all the _____ of the _____.

A face of a solid figure is _____.

Surface Area Formulas:

Prism:

Cube:

Cylinder:

Pyramid:

Sphere:

Cone:

Example 1: Find the surface area of a cylinder whose base diameter is 12 m and height is 18 m. Do not round your answer until the very end!

Example 2: A box company has two sizes of boxes they sell: large and small, both being rectangular prisms. The large box is 16 cm by 6 cm by 12 cm. The smaller box has dimensions half those of the larger box. How many times larger is the amount of cardboard needed for the larger package than the smaller one?

Example 3: Find the surface area of a square pyramid whose slant height is 4 ft and base edge is 6 ft.

Example 4: A cube has an edge of 15 cm. Find the surface area of this cube, and then find the surface area of a cube whose base is tripled. How does the new surface area compare to the original surface area?